

TASMANIAN LANDSLIDE MAP SERIES
BURNIE – GEOLOGY
MAP 3



<p>QUATERNARY</p> <p>HOLOCENE</p> <ul style="list-style-type: none"> Qm - Man-made deposits (Qm) Qh1 - Beach sand, sand dunes and beach gravel (Qh1) Qh2 - Beach sand, sand dunes and beach gravel (Qh2) Qh3 - Paralic clay, silt, sand and minor gravel deposits of modern soft marsh and associated flood flats (Qh3) Qh4 - Sand of stabilised longitudinal beach ridges (Qh4) Qh5 - Stream alluvium, swamp and marsh deposits (Qh5) Qc - Colluvium Qaf - Gravel deposits of alluvial fans (Qaf) Qst - Landslide deposits predominantly derived from weathered Tertiary rocks (Qst) Qpsa - Older alluvial sand of coastal plain (Qpsa) Qpsb - Felsic (Qpsb) basal fans (Qpsb) Qpsc - Older alluvial gravels of river terraces (Qpsc) <p>PLEISTOCENE</p> <ul style="list-style-type: none"> Tk - Basalt (Tk), including local occurrences of basal white basalt (Tkw), nepheline monzonite (Tkn), and basaltic (Tkb). Predominantly deeply weathered basalt (Tkw) Ts - Terrestrial aeolian gravel and minor lacustrine deposits (Ts), interbedded siliceous sands, quartz sand and silt (Tsq), finely crystalline shaly claystone, sandstone and yellow conglomerate (Tsc), grey-brown and silty sand and siltstone and silty sandstone and conglomerate (Tsp), and silty sandstone and conglomerate (Tst) Tb - Basaltic pyroclastics (Tb) Tca - Calcareous sandstone and calcarenite, with Upper Oligocene - Lower Miocene marine fossils (False Cape Group) (Tca) Tbt - Lower valley-filling basalt, Olivine tholeiite (Tbt) 	<p>PALEOZOIC</p> <p>CARBONIFEROUS</p> <ul style="list-style-type: none"> Pt - Tilted, rhythmic, oolitic and flint sandstone with drusestones (Ptyard Tilt) (Pt) CD - Siliceous pebble-cobble conglomerate and quartz sandstone (CD) CS - Siliceous siltstone (CS) CM - Hematite - magnetic - pyrite mineralisation (CM) Ro - Quartzite turbidite sequence of sandstone, siltstone and well bedded blue grey mudstone (Ro) <p>PROTEROZOIC</p> <ul style="list-style-type: none"> J - Jurassic Jd - Dolerite (Jd) P - Proterozoic Pd - Aplitic dolerite, metabasalt (Pd) 	<p>INTRUSIVE ROCKS</p> <ul style="list-style-type: none"> Jd - Dolerite (Jd) Pd - Aplitic dolerite, metabasalt (Pd) 	<p>Geological boundary - position accurate or approximate.</p> <p>Geological boundary - inferred from airborne radiometric data.</p> <p>Axial surface trace of major synform.</p> <p>Axial surface trace of major system.</p> <p>Axial surface trace of major overturned synform.</p> <p>Axial surface trace of major anticline.</p> <p>Axial surface trace of major later system.</p> <p>Trends of older stabilised Hoboken beach ridges.</p> <p>Trends of rock beach ridge related to regressive transgression of Last Interglacial Stage.</p> <p>Limit of mapping of sub-unit within undifferentiated rock unit.</p> <p>Municipality boundary.</p>	<p>Strike and dip of bedding, right way up: $\frac{1}{2}$ / $\frac{1}{2}$ (Facing unknown, overturned)</p> <p>Strike of vertical bedding, facing unknown: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Strike and dip of cleavage of unspecified type and relative age: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Strike and dip of penetrative cleavage: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Strike and dip of cleavage, relative local age S1: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Strike and dip of cleavage, relative local age S4, vertical: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Trend and plunge of minor fold hinge line, unspecified relative age; vergence unknown: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Trend and plunge of mineral elongation direction: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Trend and plunge of minor fold hinge, relative local age F1, horizontal: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Trend and plunge of minor fold hinge, relative local age F2 of later: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Trend and plunge of hinge line of minor synform, relative local age F2 of later: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Trend and plunge of minor fold hinge line, relative local age F4: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Possible eruptive centre: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Field station for adjacent readings on the map: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Notable small outcrop with rock unit indicated: $\frac{1}{2}$ / $\frac{1}{2}$</p> <p>Notable small reef or log occurrence, with rock type indicated: $\frac{1}{2}$ / $\frac{1}{2}$</p>	<p>Scale: 1:25 000</p> <p>0 500 1000 1500 2000 2500m</p> <p>GDMA - MGA Zone 55, Contour Interval 20 metres</p> <p>GDA</p> <p>Citation: Carter, C.B., Burnett, J.L., Owen, D.C., Spenning, G.B., Stevenson, M.D. and Voss, M.J. (2010). Burnie - Geology. Tasmanian Landslide Map Series. Mineral Resources Tasmania, Department of Infrastructure Energy and Resources, Hobart.</p> <p>Acknowledgements: Geology based on Mineral Resources Tasmania, Digital Geologist Atlas 1:25 000 series. For more information refer to 1:50 000 series map sheets - see Location Diagram below. Base data from the Land Information System of Tasmania (LIS). Copyright State of Tasmania. Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using GIS software.</p> <p>Disclaimer: While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information or its ability to be used for any purpose or in any way. The user should not rely on this data as the basis of any material or financial decision. 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